

# HI-Q

JAN 8/

## LAKEHEAD AMATEUR RADIO CLUB BULLETIN

### SWAP NIGHT

Thats right, the meeting this January 8 will be the one you have been waiting for.. Its time to get rid of all the junk you either bought or traded last year to someone else. The meeting starts at 8:00 p.m. sharp at the EMO Headquarters on the corner of Waterloo and Victoria. Bring all your valuable junk for the post meeting trades and bargains. If you think that all you have is junk and nobody would want it.....well you did not see last years swap night. It might also be a good idea to give the XYL some money to go to the movies so that you can sneak your prize loot inside before she gets home.

\* \* \* \* \*

The directors of the SENIOR CITIZEN AMATEURS presented Bob Bishop with an amythest based pen set recently. Bob VE3-JAB was president of the group, but is leaving to take a job at Sault St. Marie.

A few visitors in town over the holidays. VE3-BQG in from Crediton Ontario talked to over 30 hams on his handi-talkie. VE3-HRH was on the repeater while still on the Via train coming into town. Greg VE3-HPT took time off from his second year biology studies at Waterloo to visit family and friends. No Greg the auto-patch is not working. Charlie VE3-EUL also in town and will probably be taking home a trap vertical so he can get on HF back home.

Inside you will find something different for this HI-Q, a puzzle. Hope you like it and maybe we can get some more in the future.

Thanks to Bill VE3-KJ and Bill VE3-EFC for supplying 2 pages each even to printing the sten-ils this month. They took time from their holiday schedule to help this editor out. Seems like we were a bit busy to say the least. Four days before Xmas the XYL, decided to give birth to our second daughter, Amanda. The rest of the holidays were just as hectic as that Saturday but we were happy that the family could get home for Xmas day.

The deadline for anything submitted to The February HI-Q will be February 1. A phone call to us anytime before that date would get you into that issue. For sale and swap items are always welcome as well as suggestions for articles. After all this is your bulletin we just do the typing. It would seem such a waste of stamps to just mail out a few pages a month to tell you when the next meeting is on. See you at the meeting, and don't forget to bring something to trade, sell or even give away.

Mike VE3-HZW @ 577-5006  
(we never sleep)

JANUARY 1981 - HI - Q

AGENDA FOR THE JANUARY 1981 MEETING.

1. Minutes of December meeting.
2. Financial report
3. Correspondence
4. Committee reports
5. Business arising from the minutes
6. Old business
- New business
8. Round table
9. Door prizes.
10. Adjournment.

THE PREZ SEZ THE PREZ SEZ.

This edition of HI - Q may not reach you before the monthly meeting. The main reason for this is that the publisher had a holiday on the usual Thursday printing date ( Jan 1 ) and was also closed on Friday.

I guess this is also a good time to offer on behalf of the club a hearty THANK YOU to everyone involved in putting HI - Q together every month. To PAT HFS and his girls for printing, stapling and typing up address labels every month and to MIKE, HZW for typing up articles. Also to everyone else responsible for submitting articles, believe me they are really appreciated, after all, the more articles submitted from local areas, the fewer we need to take from other club magazines.

VIC, JAR and BILL, EFC are planning the ANNUAL dinner with a TENTATIVE date of FEBRUARY 14. More information should be forthcoming shortly as to time and location.

If you are planning on writing any of the DOC exams in February you had better phone the local DOC office IMMEDIATELY and register.

Nothing more from this QTH, so 73 and see you at the next meeting.

BOB. VE3IDJ.

\* \* \* \* \*

NEW CALL SIGN FOR LOCAL HAM

LEO, ve3efq is NOW VE3XT as of early December 1980. His phone number should be listed as 344-3088 not as shown in the NOVEMBER Issue of HI - Q. Maybe we will hear and see you on SSTV now LEO, HI

\* \* \* \* \*

Ye OLD PHILOSOPHER SEZ:

Too many good resolutions go in one year and out the other!  
Too many people believe an opportunity is a chance to get money  
without earning it!  
Give a civil servant an inch and he may think he's a ruler!  
Many a domestic explosion has been touched off by an old flame!  
It's nice to be important but it's more important to be nice  
The smallest deed is better than the greatest intention!

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# RADIO AMATEUR CHRISTMAS MESSAGES

Christmas messages under the direction of Bob Bishop, were again this year transmitted by Thunder Bay Radio Amateurs for Senior Citizen residents and staffs of the following Lakehead homes:

Grandview Lodge  
Dawson Court  
Cumberland Hall

The Senior Citizen Amateur Radio station VE3-LMB at Grandview Lodge was also busy handling its share of messages.

The program originated in Thunder Bay in 1975 and has been well received by Lakehead Senior Citizens who sent Christmas greetings to relatives and friends across Canada and the United States.

ADDENDUM: Thunder Bay Radio Amateurs who assisted in handling the Christmas messages were as follows:

VE3-AJ	FRANK START	VE3-CH	RAY GREER
VE3-CI	JIM DUNSTON	VE3-ARN	BILL ROBERTS
VE3-AYZ	LES HARRIS	VE3-BKY	BURT LAMBERT
VE3-DPJ	PETE BOYLE	VE3-EFC	BILL UNGER
VE3-EDW	HUGH ELLIOT	VE3-HJS	GARY SPENCE
VE3-JAB	BOB BISHOP	VE3-KRO	DAN PERSON
VE3-KRY	DAVE BEL	VE3-ECV	VIC BEL

The event also received attention in the local paper with a picture of an amateur station in operation.

.....submitted by Les VE3-AYZ

## Amateur Leaving Town

By now most of you know that one of our members is leaving town. Bob Bishop VE3-JAB has a position in Sault St. Marie and was to leave in the first part of January. Bob received his ticket a few years ago and was very active locally in amateur radio. He was a past secretary treasurer of the club, and served on many committees the past few years. Bob was also very active in handling traffic and also net controller for the North western Ontario Phone Net many days. Lately Bob was instrumental in getting a grant to set up the Senior Citizen Amateur Radio Club. Those of you who attend meeting would notice that Bob would quite often be the only one putting up his hand when the president called for volunteers for some event.

Sorry to see you go Les. Good luck in your new job. I am sure we will hear you on 3750 once you get set up. 73.

## ELECTRONICS

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N T S R V R H C K T E H A M T G T G R T
D Y D T U R E C Y O P H H T N A F W W K
N R E M B T E T M G B O V O W V L K I F
S K O B Z W A W T Y I K J H Q Q E K A A
L Z Q U G N H P O I T S F J L Y I A R M
O S D M N W M L E T M D K A E C R E M U
L Y C E F J M I G X U S P R J E S P L X
P N T A G V O U F D F G N F X I D N K I
U N V N P J F N O E E G L A S M D Z R U
A B U U B A O R P T A X U T R O U O F I
R G X Z D R C X O A S D O S Y T G M N J
A K W E T L R I K T W R W E P R N L D M
Q F G C I Q O Z T U C Z N F C E B Q C J
J T E C R I Y O Q O A U V E T C A O A R
S L P X D X D I O E R W D H T W A K P D
E E J A C O M P U T E R P N C J B N E Y
V Y R F N H K I S O J C A O I T X M D R
N X B Y T J P K G O O X V V H M I H H U
R E V I E C E R X F B R H M N G U W P B
A N S S G U K O A U G T J A C M O M S F
  
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FIND THESE HIDDEN WORDS IN THE ABOVE PUZZLE:

ANTENNA	CAPACITOR	COMPUTER	ELECTRON
HAM	INDUCTOR	KEYER	OHM
QSL	RADIO	RECEIVER	RESISTOR
SPEAKER	SWITCH	TOWER	TRANSMITTER

HIGH-Q

### Ham Radio Classes

It seems that the Ham Radio Classes this year will have to be called off due to lack of interest. No we could get enough people to take the course but we couldn't muster up enough interest among the club members. So if you knew anyone that was interested in enrolling in the course please tell them that the Ham Radio Course for this year is off. One last thing, if enough people can show interest they may consider trying to get Confederation College to but on the course in the fall.

HIGH-Q

A special thanks to Gary VE3JAF and his TRS 80 computer which generated the above word puzzle. From the time I gave him the 16 words till I had the puzzle printed out was about 15 to 20 seconds.

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## DOC NOTES

From the local DOC comes the latest in Countries banned and those with agreements. This replaces previous bulleting

### FORBIDDEN COUNTRIES LIST.

Democratic Kampuchea  
Iraq (Republic of)  
Libia (Socialist Peoples Libyan Arab Jamahiriya)  
Somali Democratic Republic  
Turkey  
Viet Nam (Socialist Republic of)  
Yemen (Peoples Democratic Republic of)  
Zaire (Republic of)

### FOLLOWING ALLOW THIRD PARTY MESSAGES

Bolivia	Jamaica
Chile	Mexico
Columbia	Nicaragua
Costa Rica	Paraguay
Peru	Dominican Republic
El Salvador	Trinidad & Tobago
Guatemala	United States
Guyana	Uruguay
Honduras	Venezuela
Israel	

### FOLLOWING PERMIT LICENSED AMATEURS TO OPERATE TEMPORARILY WHILE IN THEIR COUNTRY

Australia	Barbados	Belgium
Bermuda	Botswana	Brazil
Chile	Columbia	Costa Rica
Denmark	Dominica	Dominican Republic
Equador	Finland	France
Germany (Fed. Rep)	Greece	Guatemala
Honduras	Haiti	Honduras
India	Indonesia	Iceland
Israel	Luxembourg	Netherlands
New Zealand	Nicaragua	Norway
Panama	Peru	Philippines
Poland	Portugal	Senegal
Sweden	Switzerland	United Kingdom
United States	Uruguay	Venezuela

### NEGOTIATIONS UNDER WAY FOR SIMILAR AGREEMENT WITH:

Bolivia      Cuba      Ireland      Italy.

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VX3;...CG3....CJ3....CI3...those special prefixes.

Just a year ago, the Doc asked Amateurs for ideas on the use of special call sign prefixes. As a result, the Department has come up with a proposed policy and has asked CARF to find out from Amateurs their views on its acceptability.

Briefly, special prefixes could be used by all Canadian Amateurs in the form of a special national prefix to commemorate a significant national event or anniversary. It could be granted, on request, for a period of two months.

For significant provincial or territorial events or anniversaries, a special prefix could be granted to all Amateurs in the province or territory, as requested. It would be good for one month. Such events would be those marked by provincial or territorial government proclamation.

On a local basis, significant municipal events or anniversaries may be marked by the use of a special prefix by Amateurs living within a municipality which proclaims a special occasion. The special call prefix would be used for two weeks. The anniversaries which qualify for a special prefix are the 25th, 50th and 100th.

As for a special suffixes, these may still be issued by Regional DOC offices to mark notable events.

Carf invites comments on the Departments proposal in order to reply to it. The full text of the DOC proposal and a letter to CARF is being mailed to all affiliated clubs.

....from the November 'TCA', CARF publication

In view of the past use of special prefixes by the Lakehead Amateurs the local hams should have some input into the proposals. Under the above proposals, the 'VX' event would have been a 2 week event and probably not as great. Your comments please.

.....

'Ham Radio Horizons' ceased publication with the December issue, due to lack of sufficient popularity with subscribers to put it into a solid financial position. Ham Radio Horizons subscribers will receive ham radio, an issue for issue basis.

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A new amsat-sponsored satellite package will be prepared for geostationary orbit, according to a decision made by the california based organization incooperation with AMSAT Canada. Construction will begin immediately. The main coverage of the satellite will be region 2, and its output will be in the 70cm, amateur band, 435 mhz. Once developed, however the transponder technology will be made available to other groups worldwide. input frequencies will be in the 2 meter and 23 cm (1260 mhz) amateur bands. Potential launch dates for 1983 or 1984 are now being investigated.

.....both above from LAKELAND RADIO A. C.  
DULUTH, MINNESOTA.

JANUARY 1981 HI-Q

FOR SALE FOR SALE FOR SALE

A Drake 2-C receiver, and a Drake 2-NT CW transmitter, a Globe VFO. For more information call Ian Dorfman at 577-2980. Also Leo8s new address is 574 McGill Crescent.

For Sale...An all band vertical antenna, Hy-gain. Great for getting on the air on many bands HF with a minimum of space. Call Vlad VE3-KRV 577-1551.

Available now:

This is a commercial product you might be interested in if you have a Heathkit transceiver. Protronics (Box 778 Buckley Washington) has a digital modernization kit for the SB-102, SB-401, HW-101, SB-303 and SB-110. The 6 digit readout is priced from \$96.45 to \$104.95 depending on the model. Instructions and schematics are available separate if you want (for a small price). For the HW-101 there is also a replacement bezel kit so that the finished product does not have the 'ADDED STUFF' look. They also have a RIT kit for the HW-101 for only \$13.95.

Keep in mind that prices are in U.S. funds

If you are interested in the GEM QUAD antenna, don't wait til spring before you order. They have announced price increases in their famous antenna to take effect February of 1981. Order now and save.

\* \* \* \* \*

#### NEW HAM BAND ACTIVITY

#0 meter band operation was started in late November 1980 by VE3-QB, using his recently assign Canadian Commercial callsign VE9-LFZ, for preliminary one way transmissions with his partner VE9-LIN (VE3-BPD). They plan to operate daily at 1500, 1700 and 1900Z, plus random times evenings starting at 2200Z on CW, and later ASCII will be the modes, using 10.101 and 10.149 mhz. It was reported in early December that VE9-LFZ had solid copy in the U.S. midwest ranging to a signal strength of 5-6 even though the station was running only 5 watts to an inverted V. These are test transmissions only authorized by the Canadian Government, and Amateur operations on this band will be illegal until the end of January 1982.

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In the United States, the FCC has decided to make permanent the rule requiring commercially made amateur radio amplifiers to be type accepted. The FCC has also decided to ease a further notice of proposed rulemaking in Docket 21117 looking toward allowing manufacturers of amplifiers to supply to licensed amateurs instructions on how to modify the amplifiers already purchased to operate in the ten meter band.

...from ARRL RTTY Bulletins.

Solar flux in december was 226 only November 1979 with 232 was higher in the last 20 years. Look forward to best band conditions around January 10 and take lead on 6 meter propagation this month and if at all will be mainly on transequatorial paths.

FLAG RAISING CEREMONY

At the stroke of midnight on December 31, 1980, Dan VE3-KRO and family had a flag raising ceremony in their back yard. As the new decade started the Canadian flag went up the forty foot ham tower, followed by the Thunder Bay flag and then the Canada Games flag. The three flags fly at the 40 foot height each on its own pole from the legs of the tower in a triangular fashion.

They will remain up during this holiday season, then raised only on weekends and special occasions. When the Canada games are in Thunder Bay they will remain up at all times.

If you want a better idea of what Dan has just drive past his QTH at 310 Montclair Avenue. Its just north of The Hodder Ave Hotel.

If you want to put up your own flag for some occasion, here are some official rules for flying our flag. First of all, when possible, the flag is flown only between sunrise to sundown, but may be flown at night. No other flag or pennant should be flown or displayed above the Canadian flag. Flags that are flown together should be of the same size and separate staffs at the same height. The Canadian flag should be given the place of honour when with other flags. When worn, faded or otherwise unfit for service, it should be disposed of privately by burning.

The Canadian Flag which was proclaimed by Parliament of February 15 1965 is officially described as a ....red flag of the proportions two by length and one by width, containing in its centre a white square the width of the flag, bearing a single red maple leaf.

\* \* \* \* \*

SANTA SPEAKS TO THUNDER BAY

On the evening of Friday December 12, at 7:00 p.m. Arnold VE3-JAA gave a CQ call for Santa. After several tries, Santa was heard answering. The signal was from a northerly bearing and Santa used the VE3-YQT repeater for better range. During the next few hours, several children spoke to Santa and personally gave him their ideas of what they wanted for Xmas. Arnold had 9 spell bound youngsters at his QTH, Dan VE3-KRO had 2, Vled VE3-KRV had 2, Phil VE3-AXL 2, and Bill VE3-EFC had one.

Special thanks for organizing the event, THE L.A.R.C. SANTA CLAUS NET, goes to Bill VE3-EFC who arranged the details and got hold of Santa before the event and scheduled the dates when Santa was free. Also a special thanks to a very well done job by 'Santa', who on this occasion was visiting Nipigon (of all places), and used the facilities of VE3-ERX.(!!!!!!!!!!!!)

Some people used the occasion to get their own requests to Santa. Bill VE3-EFC was heard asking for a new toy for his computer, while Phill VE3-AXL asked for a more functional gift, shingles for his new homestead near Kakabeka. The Santa Claus Net was controled by Arnold VE3-JAA that night.

It was interesting to see that other clubs around the country are also having their own 'Santa Net'. Sault St, Marie had one and even the hams in Chicago got on national TV with their own type of Xmas Santa Net. Too bad that in their case the headling was 'CB Santa'.

## PRODUCT REPORT

### - TRYLON ABC TOWERS -

Higher and higher. Bigger and bigger. The trend for a number of years on the HF and vhf Ham bands has been one of "If it didn't come down last winter, then it wasn't big enough!!!" The size of arrays, especially HF antenna systems has been increasing dramatically, even on the local scene. Mind you, we still all drool over those colour photograph picture-stories in our favourite magazines about towers that reach up into the clouds, and the antennae are stacked up on top of that, but for most of us, it is just a dream world.

Coming back to earth, I decided last spring that I might just rebuild my antenna system(s) at the home QTH. A perusal of magazine literature resulted in my sending off letters to all parts of the kingdom, requesting more particulars. My original thinking was for a free-standing crank-up, capable of supporting an array of at least twenty square feet. This would be the equivalent of stacked, mono-band Hy-Gain antennae on one structure. Of course, my antennae are all home-made and heavy, so a good solid, RELIABLE tower was of the utmost importance. Information came back from Tristao and Tri-Ex, but at ten grand U.S. that was out of my league, believe it or not. The new Hy-gain crank-up checked in at \$4500 Canadian. Back to the drawing board.

Some literature was received from Trylon Manufacturing in Elmira, Ontario regarding their line of free-standing towers. Further correspondence with their engineering department resulted in an order for two towers, one at seventy-two and another at sixty-four feet.

I was very pleased with what I received.

Each tower is shipped on a pallette weighing in at 850 pounds apiece. The tower is designed with a uniform taper, starting at almost four feet at the base and tapering to six inches at the top for the tallest model. Heights are available from 24 feet to 100 feet and are made of zinc-coated steel angle material. Cross-bracing is also steel angle and is completely bolted. No rivets. Sections are received bolted together and are eight feet long. A bearing plate is supplied for the top section. A rotator-mounting plate was ordered to be used in the top of the second-last section. This then allowed the rotator to be mounted eight feet below the top, and could be removed in the future by lifting the mast and clamping it in a raised position. The steel used is of a very heavy gauge, when compared to the Delhi series.

A number of mounting suggestions are supplied, with the poured concrete method being preferred. The recommended size for my towers was 5 x 5 x 5 feet (4.6 yards). The holes were dug, with considerable difficulty experienced because of a high water table, but perseverance paid off. The bases were poured in early October and the towers were erected in Early November. A VERY sturdy gin-pole is required or a mobile crane would be nice, if you can swing it. Plus a good ground crew.

On special order, Trylon will hot-dip galvanize your tower, paint it in your favourite colours and I found out too late that they also have a precision top bearing available for around \$26.

Wind loading charts supplied by their engineering people showed my towers would hold fifteen square feet at 72 feet and eighteen square feet at 64 feet. Calculations showed my twenty meter array was 20 Sq. Ft. and when mounted on the 64 foot tower, the sturdiness became very noticeable. With two men at the top and a 120 pound antenna in a slight breeze, there was hardly any noticeable movement, even when deliberately shaken. The ratings seem to be conservative.

The ten meter array will be around ten square feet and even with vhf and uhf arrays mounted on top, the fifteen square foot rating on the 72 footer will be more than enough.

The catalogue prices for the two I ordered were 1423 and \$1376 respectively. Plus shipping. This may seem like a high price to pay for a tower but when considering the reliability and quality of the product, then it can be a worthwhile investment. If you are contemplating huge arrays at a "respectable" height and like to sleep nights when that ole North Wind is howlin', then buy Canadian. These towers are designed and built in Canada.

For the real ambitious, Tylon also has available another line known as "All-weld Self-supporting towers" Heights are available to 150 feet and are wind-load rated somewhat higher than the ABC series. Price on a 90 footer is approaching \$5,000 and requires a block of concrete 8 x 8 x 8. That would keep the cement company happy.

Bill VE3XJ

#### HIGH-Q

Seems that Ray, VE3EDZ has been taken by the sights and sounds of ARN's ASCII operation. Once he gets through with his home-brew rig, then Ray just may get himself into RTTY.....VE3AJ has a new(er) two meter rig, thanks to Dave, VE3KRY.....VE3AXL is assembling a few bits and Bytes.....VE3ECV rebuilt the 80 meter antenna.....VE3XJ is shuffling things around in the shack, making room for the construction season.....VE3JAR worried for his antenna system during a recent wind storm.....VE3DP is awaiting the arrival of his new rig, to complement the FT-901.....VE3EDW has a new high-powered rig percolating on VHF.....VE3HJS has a real bucket of bolts in the shack, complete with valves.....VE3KRO has lights and flags on his tower.....VE3KRU has power supply difficulties, among other things.....VE3EEW has part of the UHF auto-patch system in his basement for rebuilding.....VE3DGZ is having a great time on ten meters.....VE3HPT was in town for the holidays, wondering what happened to the auto-patch.....VE3EFA was over in GM-land for the season.....VE3KRJ is contemplating turning over the chairmanship of the Churchill Drive R.F. Generators to some other trustworthy individual.....VE3KRV refuses to work on his antennas during the winter... shame.....

#### CANADA SUMMER GAMES

Through VE3XJ, the Club has been asked to provide communications for the Cycling Event on Tuesday, August 18, Wednesday, August 19 and Friday, August 21 for approximately 5, 4 and 7 hours respectively, starting at 8 A.M. each day. Make your plans now, as a lot of assistance will be required to successfully complete our task. Further information will be forthcoming during the winter and spring months. So far, this will be the only event that we will be providing communications for.

# HERE IS THE ANSWER KEY TO THE WORD SEARCH PUZZLE

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... . . . R . . . . . H A M . . . . .
. . . . . R E . . . . . H . . . . .
. . . . . E T . . . . . O . . . . . K . .
. . . . . A W T . . . . . E . . . . .
. . Q . . N . . O I . . . . . Y . . R .
. S . . N . . . . T M . . . . . E . . E .
L . C E . . . . . S . R . . S . . .
. . T A . . . . . N . . I . . . .
. N . . P . . N . . . . . A S . . . .
A . . . . A O R . . . . . T R . . . .
. . . . . R C . O . . . . . O S . T . .
. . . . . T . . I . T . R . . P . . .
. . . C . . O . T . C . . . . E . . .
. . E . . I . . . O . U . . . . A . .
. L . . D . . . . . R . D H . . . K .
E . . A C O M P U T E R . N C . . . E .
. . R . . . . . . . . . . I T . . . R
. . . . . . . . . . . . . . I . .
R E V I E C E R . . . . . . . . W . .
. . . . . . . . . . . . . . S .
    
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## HERE ARE THE HIDDEN WORDS IN THE PUZZLE

ANTENNA	CAPACITOR	COMPUTER	ELECTRON
HAM	INDUCTOR	KEYER	OHM
QSL	RADIO	RECEIVER	RESISTOR
SPEAKER	SWITCH	TOWER	TRANSMITTER

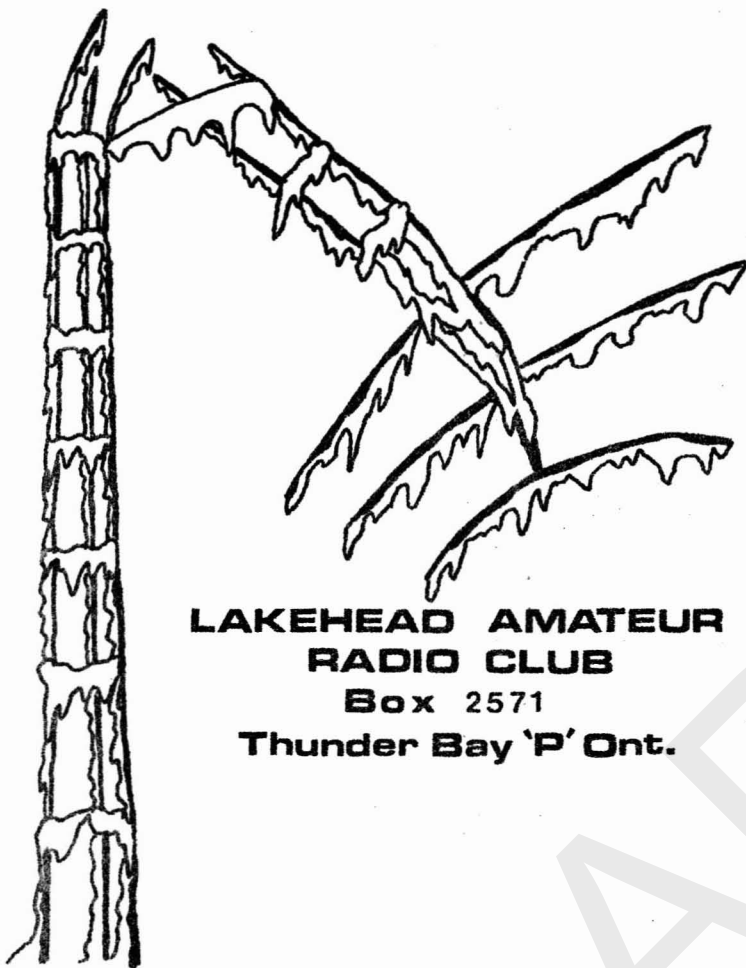
HIGH - Q

## Going South ?

This cold crummy weather got you thinking of a trip south of the boarder? Like to go to a resort where you can dip your feet into the pool then go jump into the sauna? Why not spend a weekend at the Grand Portage Lodge and Conference Centre just 5 miles south of the boarder at Pigeon River. We are thinking if we can get a gang together we could spend a weekend there. In addition to the pool there is cross country skyng, down hill skyng and snowshoeing.

Were thinking of going sometime in late February or early March, as of yet i have no prices for the Hotel but hope to have them soon. If your interested let me know at the next neeting.

VE3EFC



**LAKEHEAD AMATEUR  
RADIO CLUB**  
Box 2571  
Thunder Bay 'P' Ont.



ÉR CES TIMBRES

**TO**

Bill Unger VE3EFC  
431 N. Syndicate Avenue  
THUNDER BAY "F", Ontario